

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,113,371

APPLICATION NO.: 10/080,849

ISSUE DATE : September 26, 2006

INVENTOR(S) : Aaron J. Hanna et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 10, Line 37: After "second" delete "binge" and insert --hinge--.
(Claim 5, Line 17)

Col. 12, Line 29: After "The" delete "bead" and insert --head--.
(Claim 29, Line 1)

MAILING ADDRESS OF SENDER (Please do not use customer number below):

WESTERN DIGITAL TECHNOLOGIES, INC.

Attn: Intellectual Property Dept.

20511 Lake Forest Drive

Lake Forest, CA 92630

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

EXHIBIT A

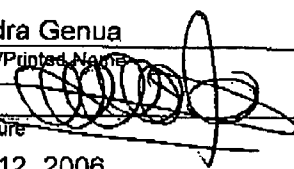


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TO: COMMISSIONER FOR PATENTS, U.S. PATENT & TRADEMARK OFFICE		
FAX NO: (571) 273-8300 (GENERAL/MAIN FAX LINE)		
NO. OF PAGES: Cover + 14		
CERTIFICATE OF FACSIMILE TRANSMISSION I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below. Sandra Genua Typed/Printed Name  Signature July 12, 2006 Date	APPLICATION NO.	10/080,849
	FILING DATE	02/22/2002
	FIRST NAMED INVENTOR	Hanna, et al.
	ART UNIT	2627
	CONFIRMATION NO.	9641
	EXAMINER	MAGEE, Christopher R.
	ATTORNEY DOCKET NO.	A1056
TITLE	SUSPENSION DESIGN FOR ATTENUATION OF DISK FLUTTER INDUCED TRACK MIS-REGISTRATION OF A HARD DISK DRIVE BY MANIPULATION OF THE HINGE AND/OR LOAD BEAM	

ATTACHED WITH THIS SUBMISSION:

1. Fax transmittal Cover Sheet (this page)
2. Response to Office Action dated 06/20/2006 (14 pages)

PLEASE CONFIRM RECEIPT OF THIS TRANSMISSION. IF THERE IS ANY PROBLEM WITH THIS TRANSMISSION, PLEASE CALL SANDRA GENUA AT (949) 672-7780.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of)	Examiner: Christopher R. MAGEE
Aaron J. HANNA)	Art Unit: 2627
For: SUSPENSION DESIGN FOR)	Confirmation No.: 9641
ATTENUATION OF DISK FLUTTER)	Total Pages: 14
INDUCED TRACK MIS-)	
REGISTRATION OF A HARD DISK)	
DRIVE BY MANIPULATION OF THE)	
HINGE AND/OR LOAD BEAM)	
Serial No.: 10/080,849)	
Filed: February 22, 2002)	
Docket No.: K35A1056)	

RESPONSE TO OFFICE ACTION DATED 06/20/2006

MAIL STOP AMENDMENT
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The present paper is responsive to the non-final Office Action mailed June 20, 2006.

A complete listing of the **Claims** begins on page 2 of this paper.

Remarks begin on page 14 of this paper.

Art Unit 2653
Serial No. 10/080,849

PATENT
Attorney Docket No.: K35A1056

IN THE CLAIMS:

1 - 4. (Cancelled)

5. (Currently Amended) ~~The head stack assembly of Claim 1,~~ A head stack assembly for a disk drive having a disk, the head stack assembly comprising:

a body portion;

an actuator arm cantilevered from the body portion;

a hinge, a first surface of the hinge being coupled to the actuator arm;

a load beam having a first end and a second end, the first end including a load beam surface that faces and contacts a second surface of the hinge, the second surface facing away from the first surface;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal;

wherein the first surface includes

a first convex portion defining a first radius of curvature, adjacent the actuator arm, and adjacent

a first concave portion of the first surface, defining a second radius of curvature , adjacent,

a second convex portion of the first surface, defining a third radius of curvature, adjacent

a second concave portion of the first surface, adjacent the first end.

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6 - 8. (Cancelled)

9. (Currently amended) ~~The disk drive of Claim 6;~~ A disk drive, comprising:

a disk having a recording surface;

a head stack assembly, including:

a body portion;

an actuator arm cantilevered from the body portion;

a hinge, a first surface of the hinge being coupled to the actuator arm;

a load beam having a first end and a second end, the first end including a load beam surface that faces and contacts a second surface of the hinge, the second surface facing away from the first surface;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal;

wherein the first surface includes

a first convex portion defining a first radius of curvature, adjacent the actuator arm, and adjacent

a first concave portion of the first surface, defining a second radius of curvature , adjacent,

a second convex portion of the first surface, defining a third radius of curvature, adjacent

a second concave portion of the first surface, adjacent the first end.

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10. (Previously presented) The disk drive of Claim 9, wherein the third radius is greater than the second radius.

11-13. (Cancelled)

14. (Currently amended) ~~The head gimbal assembly of Claim 11;~~ A head gimbal assembly for a head stack assembly of a disk drive, comprising:

a hinge having a first hinge surface and a second hinge surface;

a mount plate coupled to the first hinge surface;

a load beam having a first end and a second end, the first end including a load beam surface that faces and contacts the second hinge surface, the second hinge surface facing away from the first hinge surface;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal;

wherein the hinge includes a radius geometry that defines a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

15. (Previously presented) A suspension for a head stack assembly of a disk drive, the suspension comprising:

a hinge, having a first hinge end and a second hinge end;

a mount plate coupled to the first hinge end;

a load beam having a first load beam end and a second load beam end, the first load beam end being coupled to the second hinge end; and

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PATENT
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a gimbal coupled to the second load beam end;

the hinge including a first surface having

a first convex portion defining a first radius of curvature, adjacent the first hinge end, and adjacent

a first concave portion of the first surface, defining a second radius of curvature, adjacent,

a second convex portion of the first surface, defining a third radius of curvature, adjacent

a second concave portion of the first surface, adjacent the second hinge end.

16. (Original) The suspension of Claim 15, wherein the hinge has a thickness that is greater than 0.05 mm.

17. (Original) The suspension of Claim 15, wherein the load beam has a thickness that is greater than 0.12 mm.

18. (Previously presented) The suspension of Claim 15, wherein the third radius is greater than the second radius.

19. (Previously presented) The suspension of claim 15, wherein the first surface is coupled to the mount plate.

20. (Previously presented) The suspension of Claim 19, wherein the hinge further comprises a second surface opposing the first surface and the second surface faces and is in contact with a surface of the load beam.

21. (Original) The suspension of Claim 19, wherein the load beam has a thickness that is greater than 0.12 mm.

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22. (Previously presented) The suspension of Claim 19, wherein the first radius is closer to the mount plate than the second radius, the second radius is closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

23. (Previously presented) A head gimbal assembly for a head stack assembly of a disk drive, the head stack assembly including a body portion, an actuator arm cantilevered from the body portion, the disk drive having a disk, the head gimbal assembly comprising:

a load beam having a first end and a second end, the first end defining an integral hinge portion, the hinge portion defining a radius geometry that includes at least three radii of curvatures configured to lower load beam toward the disk such that a first surface of the hinge portion defines at least two concave portions and at least two convex portions, the first surface of the hinge portion being coupled to the actuator arm;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal.

24. (Previously presented) The head gimbal assembly of Claim 23, wherein the hinge portion has a thickness that is greater than 0.05 mm.

25. (Original) The head gimbal assembly of Claim 23, wherein the load beam has a thickness that is greater than 0.12 mm.

26. (Original) The head gimbal assembly of Claim 23, wherein the radius geometry includes a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

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Attorney Docket No.: K35A1056

27. (Previously presented) A head stack assembly for a disk drive having a disk, the head stack assembly comprising:

a body portion;

an actuator arm cantilevered from the body portion;

a load beam having a first end and a second end, the first end defining an integral hinge portion, the hinge portion defining a radius geometry that includes at least three radii of curvatures configured to lower load beam toward the disk such that a first surface of the hinge portion defines at least two concave portions and at least two convex portions, the first surface of the hinge portion being coupled to the actuator arm;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal.

28. (Previously presented) The head stack assembly of Claim 26, further including a mount plate attached to the actuator arm, the hinge portion being coupled to the actuator arm via the mount plate, the mount plate having a thickness that is greater than 0.22 mm.

29. (Previously presented) The head stack assembly of Claim 27, wherein the hinge portion has a thickness that is greater than 0.05 mm.

30. (Original) The head stack assembly of Claim 27, wherein the load beam has a thickness that is greater than 0.12 mm.

31. (Original) The head stack assembly of Claim 27, wherein the radius geometry includes a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being

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PATENT
Attorney Docket No.: K35A1056

closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

32. (Previously presented) A disk drive, comprising:

a disk having a recording surface;

a head stack assembly, including:

a body portion;

an actuator arm cantilevered from the body portion;

a load beam having a first end and a second end, the first end defining an integral hinge portion, the hinge portion defining a radius geometry that includes at least three radii of curvatures configured to lower load beam toward the disk such that a first surface of the hinge portion defines at least two concave portions and at least two convex portions, the first surface of the hinge portion being coupled to the actuator arm;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal.

33. (Previously presented) The disk drive of Claim 32, further including a mount plate attached to the actuator arm, the hinge portion being coupled to the actuator arm via the mount plate, the mount plate having a thickness that is greater than 0.22 mm.

34. (Previously presented) The disk drive of Claim 32, wherein the hinge portion has a thickness that is greater than 0.05 mm.

35. (Original) The disk drive of Claim 32, wherein the load beam has a thickness that is greater than 0.12 mm.

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Attorney Docket No.: K35A1056

36. (Original) The disk drive of Claim 32, wherein the radius geometry includes a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

37. (Previously presented) A head stack assembly for a disk drive having a disk, the head stack assembly comprising:

a body portion;

an actuator arm cantilevered from the body portion;

a hinge defining a radius geometry, the radius geometry including at least three radii of curvatures such that a first surface of the hinge defines at least two concave portions and at least two convex portions, the hinge being coupled to the actuator arm;

a load beam having a first end and a second end, the first end being coupled to the hinge;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal.

38. (Original) The head stack assembly of Claim 37, further including a mount plate attached to the actuator arm, the hinge being coupled to the actuator arm via the mount plate, the mount plate having a thickness that is greater than 0.22 mm.

39. (Previously presented) The head stack assembly of Claim 37, wherein the hinge further comprises a second surface opposing the first surface and the second surface faces and is in contact with a surface of the load beam.

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40. (Previously presented) The head stack assembly of Claim 37, wherein the first surface faces and is in contact with a surface of the load beam.

41. (Original) The head stack assembly of Claim 37, wherein the radius geometry includes a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

42. (Previously presented) A disk drive, comprising:

a disk having a recording surface;

a head stack assembly, including:

a body portion;

an actuator arm cantilevered from the body portion;

a hinge defining a radius geometry, the radius geometry including at least three radii of curvatures such that a first surface of the hinge defines at least two concave portions and at least two convex portions, the hinge being coupled to the actuator arm;

a load beam having a first end and a second end, the first end being coupled to the hinge;

a gimbal coupled to the second end of the load beam, and

a slider coupled to the gimbal.

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43. (Original) The disk drive of Claim 42, further including a mount plate attached to the actuator arm, the hinge being coupled to the actuator arm via the mount plate, the mount plate having a thickness that is greater than 0.22 mm.

44. (Previously presented) The disk drive of Claim 42, wherein the hinge further comprises a second surface opposing the first surface and the second surface faces and is in contact with a surface of the load beam.

45. (Previously presented) The disk drive of Claim 42, wherein the first surface faces and is in contact with a surface of the load beam.

46. (Original) The disk drive of Claim 42, wherein the radius geometry includes a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

47. (Previously presented) A head gimbal assembly for a head stack assembly of a disk drive, the head stack assembly including a body portion, an actuator arm cantilevered from the body portion, the disk drive having a disk, the head gimbal assembly comprising:

a hinge defining a radius geometry, the radius geometry including at least three radii of curvatures such that a first surface of the hinge defines at least two concave portions and at least two convex portions, the hinge being coupled to the actuator arm;

a load beam having a first end and a second end, the first end being coupled to the hinge;

a gimbal coupled to the second end of the load beam, and

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a slider coupled to the gimbal.

48. (Previously presented) The head gimbal assembly of Claim 47, wherein the hinge further comprises a second surface opposing the first surface and the second surface faces and is in contact with a surface of the load beam.

49. (Previously presented) The head gimbal assembly of Claim 47, wherein the first surface faces and is in contact with a surface of the load beam.

50. (Original) The head gimbal assembly of Claim 47, wherein the radius geometry includes a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

51. (Previously presented) A suspension for a head stack assembly of a disk drive, the suspension comprising:

a hinge defining a radius geometry, the radius geometry including at least three radii of curvatures such that a first surface of the hinge defines at least two concave portions and at least two convex portions;

a mount plate coupled to the first surface;

a load beam having a first end and a second end, the first end being coupled to the hinge,
and

a gimbal coupled to the second end of the load beam.

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52. (Original) The suspension of Claim 51, wherein the hinge has a thickness that is greater than 0.05 mm.

53. (Original) The suspension of Claim 51, wherein the load beam has a thickness that is greater than 0.12 mm.

54. (Original) The suspension of Claim 51, wherein the radius geometry includes a first radius of curvature, a second radius of curvature and a third radius of curvature, the first radius being closer to the mount plate than the second radius, the second radius being closer to the mount plate than the third radius, and wherein the third radius is greater than the second radius.

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REMARKS

In the non-final Office Action mailed June 20, 2006, claims 1-4, 6-8, and 11-13 were rejected, claims 15-54 were allowed, and claims 5, 9, 10, and 14 were objected to as being dependent upon a rejected base claim. The examiner indicated that claims 5, 9, 10, and 14 would be allowable if re-written in independent form including all of the limitations of the base claim and any intervening claims.

Accordingly, and to quickly advance this case to allowance, Applicants have hereby cancelled all of the rejected claims and have re-written claims 5, 9, 10, and 14 in independent form including all of the limitations of the base claim and any intervening claims.

Applicants respectfully submit that all remaining claims are now in condition for allowance. If it is believed that a telephone conversation would expedite the prosecution of the present application, or clarify matters with regard to its allowance, the Examiner is invited to contact the undersigned attorney at the number listed below. The Commissioner is authorized to charge any fees which may be required to Deposit Account 23-1209.

Respectfully submitted,

Date: July 12, 2006

By: 

Joshua C. Harrison, Ph.D., Esq.
(Registration No. 45,686)

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of: Aaron J. Hanna, et al.

Patent No.: 7,113,371

Issue Date: 9/26/2006

For: SUSPENSION DESIGN FOR
ATTENUATION OF DISK FLUTTER
INDUCED TRACK MIS-REGISTRATION
OF A HARD DISK DRIVE BY
MANIPULATION OF THE HINGE AND/OR
LOAD BEAM

Serial No.: 10/080,849

Filing Date: 2/22/2002

Examiner: Angel Castro

Docket No.: A1056

**REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 35 U.S.C. § 254**

ATTN: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Arlington, VA 22313-1450

Dear Sir/Madam:

The following errors were noted in the above-referenced patent. Applicant hereby requests that the Commissioner issue a Certificate of Correction, without charge.

In the Claims:

Column 10, Line 37:

After "second", please delete "binge" and insert --hinge--. Attached as Exhibit A is a copy of the amendment filed July 12, 2006 which shows the correct wording of Claim 5, renumbered in the issued patent as Claim 1.

Column 12, Line 29:

After "The", please delete "bead" and insert --head--. Attached as Exhibit A is a copy of the amendment filed July 12, 2006 which shows the correct wording of Claim 39, renumbered in the issued patent as Claim 29.

A Certificate of Correction (PTO/SB/44) is enclosed. No fee is believed to be due. However, the Commissioner is hereby authorized to charge payment of any required fees associated with this communication or credit any overpayment to Deposit Account No. 23-1209.

Respectfully submitted,

Date: March 4, 2008

By: /Stacey A. Mollohan/
Stacey A. Mollohan, Esq.
Reg. No. 48,257

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